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Title: **JP1263910A2: PERPENDICULAR MAGNETIC RECORDING MEDIUM AND MAGNETIC DISK DEVICE**

Country: **JP Japan**
Kind: **A**

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Application Number: **JP1988000089058**

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Priority Number(s): **April 13, 1988 JP1988000089058**

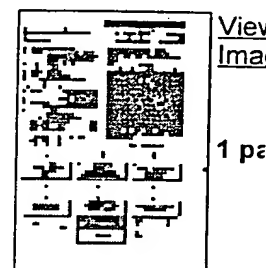
Abstract: **Purpose:** To improve magnetic characteristics and adhesiveness so as to obtain a high recording density and to improve reliability by using intermediate layers of a Ti-alloy contg. specific elements in addition to Ti as nonmagnetic intermediate layers.
Constitution: The thin films added with at least one kind of the element selected from the group consisting of V, Nb, Ta, Cr, Mo, W, Mn, Ni, Pd, Pt, Cu, Ag, Au, C, Si, Ge, Ru, Os, Rh, and Ir are used for the intermediate layers 13, 13' of the Ti-base alloy of the perpendicular magnetic recording medium provided with the intermediate layers 13, 13' of the Ti-base alloy between hexagonal magnetic alloy layers 14, 14' and a nonmagnetic substrate 11. The c-axis orientational property and magnetic characteristics of the hexagonal magnetic alloy layers 14, 14' are thereby greatly improved and the magnetic disk and device having the good recording and reproducing characteristics and reliability are thereby obtd.

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Family: [Show known family members](#)

Other Abstract Info: **DERABS C89-352475 DERC89-352475**

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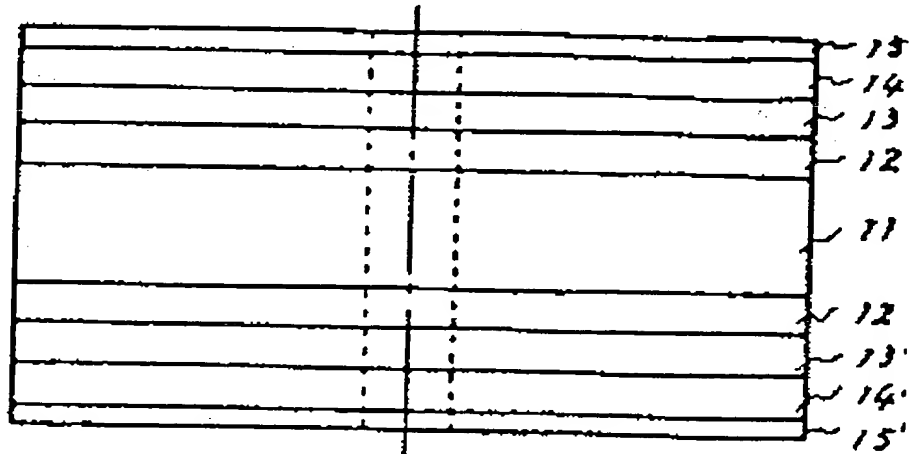
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(54) PERPENDICULAR MAGNETIC RECORDING MEDIUM AND MAGNETIC DISK DEVICE

(57) Abstract:

PURPOSE: To improve magnetic characteristics and adhesiveness so as to obtain a high recording density and to improve reliability by using intermediate layers of a Ti-alloy contg. specific elements in addition to Ti as nonmagnetic intermediate layers.

CONSTITUTION: The thin films added with at least one kind of the element selected from the group consisting of V, Nb, Ta, Cr, Mo, W, Mn, Ni, Pd, Pt, Cu, Ag, Au, C, Si, Ge, Ru, Os, Rh, and Ir are used for the intermediate layers 13, 13' of the Ti-base alloy of the perpendicular magnetic recording medium provided with the intermediate layers 13, 13' of the Ti-base alloy between hexagonal magnetic alloy layers 14, 14' and a nonmagnetic substrate 11. The c-axis orientational property and magnetic characteristics of the hexagonal magnetic alloy layers 14, 14' are thereby greatly improved and the



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